

Annual Drinking Water Quality Report
Phoenix July 2021

We're pleased to present to you this year's Annual Quality Water Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water source is taken from three wells in the Baltimore Gneiss, the points of withdrawal shall be located 0.3 mile northwest of the intersection of Old York Road and Paper Mill Road, 0.5 mile east of Cooper Road, 1.5 mile west northwest of Jacksonville, in Baltimore County, Maryland. .

I'm pleased to report that our drinking water is safe and meets federal and state requirements.

If you have any questions about this report or concerning your water utility, please contact **Mr. Clifton Weller at 410-887-5316, Monday thru Friday, 7:30 am to 3:30 pm**

Phoenix Water Treatment Plant routinely monitors for contaminants in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1st to December 31st, 2020. As water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these contaminants does not necessarily pose a health risk.

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Non-Detects (ND) - laboratory analysis indicates that the contaminant is not present.

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in 2 years, or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter (ug/l) - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) or Nanograms per liter (ng/l) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) or Picograms per liter (pg/l) - one part per quadrillion corresponds to one minute in 2,000,000,000 years, or a single penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) - measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Action Level (AL) - (mandatory language) The "Action Level" is the level of concentration for a contaminant if exceeded, triggers treatment or other requirements which a water system must follow.

Treatment Technique (TT) - (mandatory language) The "Treatment Technique" is a required process intended to reduce the level of a contaminant in drinking water.

Maximum Contaminant Level (MCL) - (mandatory language) The "Maximum Allowed" is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - (mandatory language) The "Goal" is the level of a contaminant in drinking water below, which there is no known or expected risk to health. MCLGs allow for a margin of safety.

See Appendix A

We constantly monitor the water supply for various contaminants. We have detected radon in the finished water supply in 1 out of 1 samples tested. There is no federal regulation for radon levels in drinking water. Exposure to air transmitted radon over a long period of time may cause adverse health effects

We strive to do our best so that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some contaminants have been detected. The EPA has determined that your water IS SAFE at these levels.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or manmade. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

MCL's are set at very stringent levels. To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other Immune System Disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline 1-800-426-4791. <http://www.epa.gov/safewater/lead>

Nitrates: As a precaution we always notify physicians and health care providers in this area if there is ever a higher than normal level of nitrates in the water supply.

40 CFR 141.154(c) states that a system which detects nitrate at levels above 5 mg/l, but below the MCL, must include a short informational statement about the impacts of nitrate on children using language such as: ***Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.***

Lead: Lead in drinking water is rarely the sole cause of lead poisoning, but it can add to a person's total lead exposure. All potential sources of lead in the household should be identified and removed, replaced or reduced.

"If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Phoenix Water Treatment Plant is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your drinking water, you may request to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the EPA Safe Drinking Water Hotline at 1-800-426-479
<http://www.epa.gov/safewater/lead>."

40 CFR 141.153(b)(2) states that if a source water assessment has been completed, the consumer confidence report must notify consumers of the availability of this information and the means to obtain it. MDE completed a source water assessment for Phoenix in 2001, and it can be found on MDE's website: https://mde.maryland.gov/programs/Water/water_supply/Source_Water_Assessment_Program/Pages/ba.a.spx under Small Community Water Systems in Baltimore County

Please call our office if you have questions.

We at Phoenix Water Treatment Plant work around the clock to provide top quality water to every tap, said Clifton Weller. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

Annual Drinking Water Report Phoenix Plant Regulated Contaminants Detected

Appendix A

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Major Sources
Nitrate	7/7/2020	0.18	0.18 - 0.18	10	10	ppm	No	Runoff from fertilizer use; Leaching from septic tanks, sewage, erosion of natural deposits.
Fluoride	8/4/2020	<0.10	<0.10	4	4	ppm	No	Erosion of natural deposits; Discharge from fertilizer runoff and factories.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Major Sources
Beta / photon emitters	7/23/2014	4.1 pCi/L	4.1 - 4.1	0	60 pCi/L	mrem / yr	No	Decay of natural and man made deposits
Alpha Gross	7/23/2014	< 2 pCi/l		0	15 pCi/l	pCi/l	No	Erosion of natural deposits.
Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Major Sources
Chlorine	Daily	1.2	0.2 - 1.2	MROLE=4	MROLE=4	ppm	No	Water additive used to control microbes.
Halocetic Acid 5 HAA5	7/8/2020	5	4.8 - 4.8	No goal for the total	60	ppb	No	By-product of drinking water disinfection.
Halocetic Acid 5 HAA5	7/8/2020	5	4.8 - 4.8	No goal for the total	60	ppb	No	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	7/1/2020	35	34.9 - 34.9	No goal for the total	80	ppb	No	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	7/1/2020	35	34.9 - 34.9	No goal for the total	80	ppb	No	By-product of drinking water disinfection.
Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Major Sources
Copper	Aug. 2019	1.3	1.3	0.09	5	ppm	No	Corrosion of household plumbing systems; erosion of natural deposits. Leaching from wood preservatives
Lead	Aug. 2019	0	15	<0.002	5	ppm	No	Corrosion of household plumbing systems; erosion of natural deposits
Volatile Organic Compounds	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Major Sources
Benzene	8/20/2020	ND		zero	0.005	ppb	No	Discharge from factories; leaching from gas storage tanks and landfills.

Violations Table

Revised Total Coliform Rule (RTCR)

The Revised Total Coliform Rule (RTCR) seeks to prevent waterborne diseases caused by E. coli. E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms.

Violation Type	Violation Begin	Violation End	Violation Explanation